

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1. (Currently Amended) A subminiature bone conduction speaker using a vibrating plate comprising:

a body having a shape of a cylinder of which upper portion is opened;

a yoke which is disposed in a lower portion of the body and of which center has a protrusion;

a ring type magnet which is formed on the edge of the yoke and apart from an end portion of the protrusion by a predetermined clearance;

an upper plate which is formed on the magnet;

a mastoid to transmit a vibration to a skull of a user for stimulating an auditory nerve of the user;

an acoustic vibrating plate which is inserted at a lower side of the mastoid to cover the opening portion of the body and which is made of an elastic material;

an auxiliary vibrating plate which is inserted under the acoustic vibrating plate which is inserted to the mastoid; the auxiliary vibrating plate including a howl-prevention hole, so that a howling effect is prevented at ears of the user;

a voice coil which is attached to the auxiliary vibrating plate and which is inserted between the end portion of the protrusion of the yoke and the ring type magnet;

a front cap for fixing the acoustic vibrating plate on the body; and

an electrical signal input unit for inputting an electric signal to the voice coil.

2. (Currently Amended) A subminiature bone conduction speaker using a vibrating plate according to claim 1, wherein the howl-prevention hole is positioned in at least one of the mastoid and the auxiliary vibrating plate], thereby preventing a howling effect at the ears of the user.
3. (Original) A subminiature bone conduction speaker using a vibrating plate according to claim 1, wherein the acoustic vibrating plate is made of beryllium copper.
4. (Previously Presented) A subminiature bone conduction speaker using a vibrating plate according to claim 1, wherein the ring magnet comprises neodymium (Nd).
5. (Original) A subminiature bone conduction speaker using a vibrating plate according to claim 1,
wherein one end and the other end of the voice coil are connected with an outgoing line,
and
wherein the outgoing line is passed through a through hole formed in the body and is connected to a connection terminal formed on an outer side of the body.

6. (Currently Amended) A mobile phone having a bone conduction speaker, wherein the bone conduction speaker comprising of:

a body having a shape of a cylinder of which upper portion is opened;

a yoke which is disposed in a lower portion of the body and of which center has a protrusion;

a ring type magnet which is formed on the edge of the yoke and apart from an end portion of the protrusion by a predetermined clearance;

an upper plate which is formed on the magnet;

a mastoid to transmit a vibration to a skull of a user for stimulating an auditory nerve of the user;

an acoustic vibrating plate which is inserted at a lower side of the mastoid to cover the opening portion of the body and which is made of an elastic material;

an auxiliary vibrating plate which is inserted under the acoustic vibrating plate which is inserted to the mastoid; the auxiliary vibrating plate including a howl-prevention hole, so that a howling effect is prevented at ears of the user;

a voice coil which is attached to the auxiliary vibrating plate and which is inserted between the end portion of the protrusion of the yoke and the ring type magnet;

a front cap for fixing the acoustic vibrating plate on the body; and

an electrical signal input unit for inputting an electric signal to the voice coil.

7. (Previously Presented) A subminiature bone conduction speaker using a vibrating plate according to claim 1, wherein the mastoid comprises a plastic material.

8. (Previously Presented) A mobile phone having a bone conduction speaker according to claim 6, wherein the mastoid comprises a plastic material.

9. (New) A subminiature bone conduction speaker using a vibrating plate, comprising:

a body having a shape of a cylinder of which an upper portion is opened;

a magnet positioned at a lower portion of the body;

a mastoid positioned at the upper portion of the body, an upper face of the mastoid having a size larger than a central portion of the magnet to thereby transmit a vibration to a skull of a user for stimulating an auditory nerve of the user;

an acoustic vibrating plate which is inserted at a lower side of the mastoid to cover the opened upper portion of the body and which is made of an elastic material;

an auxiliary vibrating plate which is inserted under the acoustic vibrating plate which is inserted to the mastoid, the auxiliary vibrating plate including a howl-prevention hole, so that a howling effect is prevented at ears of the user;

a voice coil spaced apart from the magnet by an interval distance, the voice coil being vibrated by an electromagnetic force due to the magnet and an electrical signal applied thereto;
and

an electrical signal line unit for imputing the electrical signal to the voice coil.